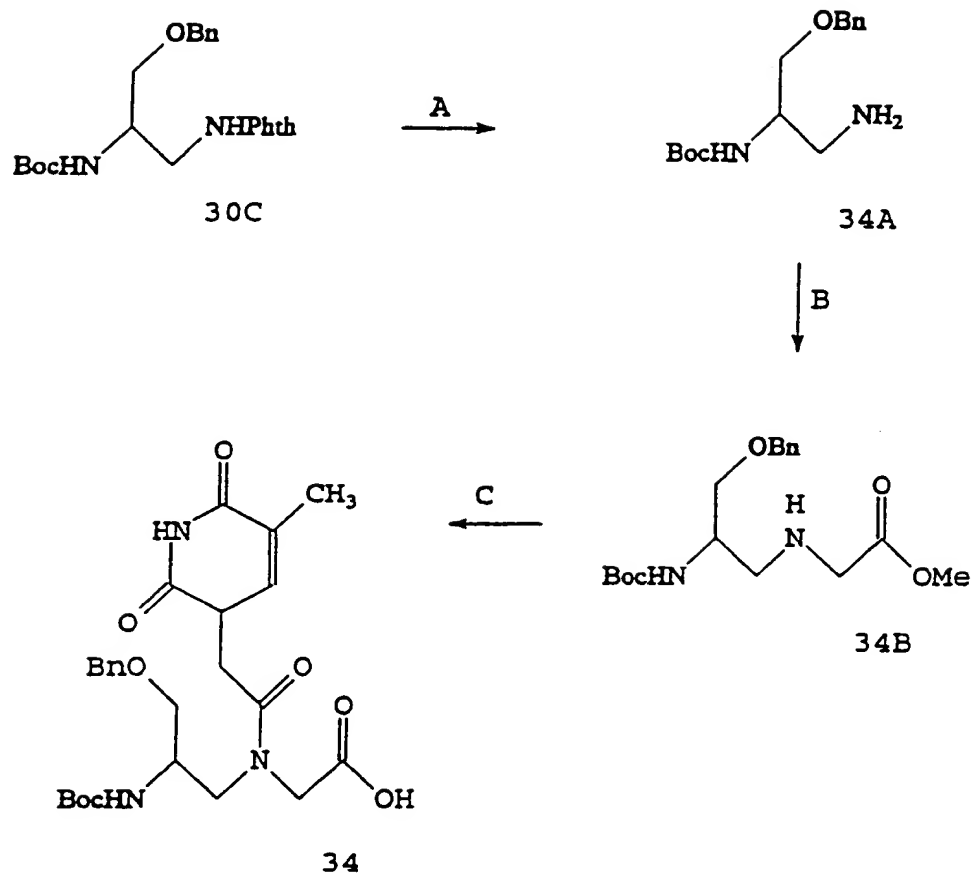


- A. Diazomethane, MeOH  
 B. LiBH<sub>4</sub>, MeOH  
 C. PPh<sub>3</sub>, Phthalimide, DEAD  
 D. TFA, CH<sub>2</sub>Cl<sub>2</sub>, NaHCO<sub>3</sub>, Methyl bromoacetate  
 E. 1-Thyminylacetylchloride  
 F. H<sub>2</sub>NNH<sub>2</sub>, Boc<sub>2</sub>O, NaOH, MBHA Lys resin

Figure 1

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- A. Hydrazine, Ethanol  
B. Methyl bromoacetate  
C. 1-Thymineylacetylchloride

Figure 2

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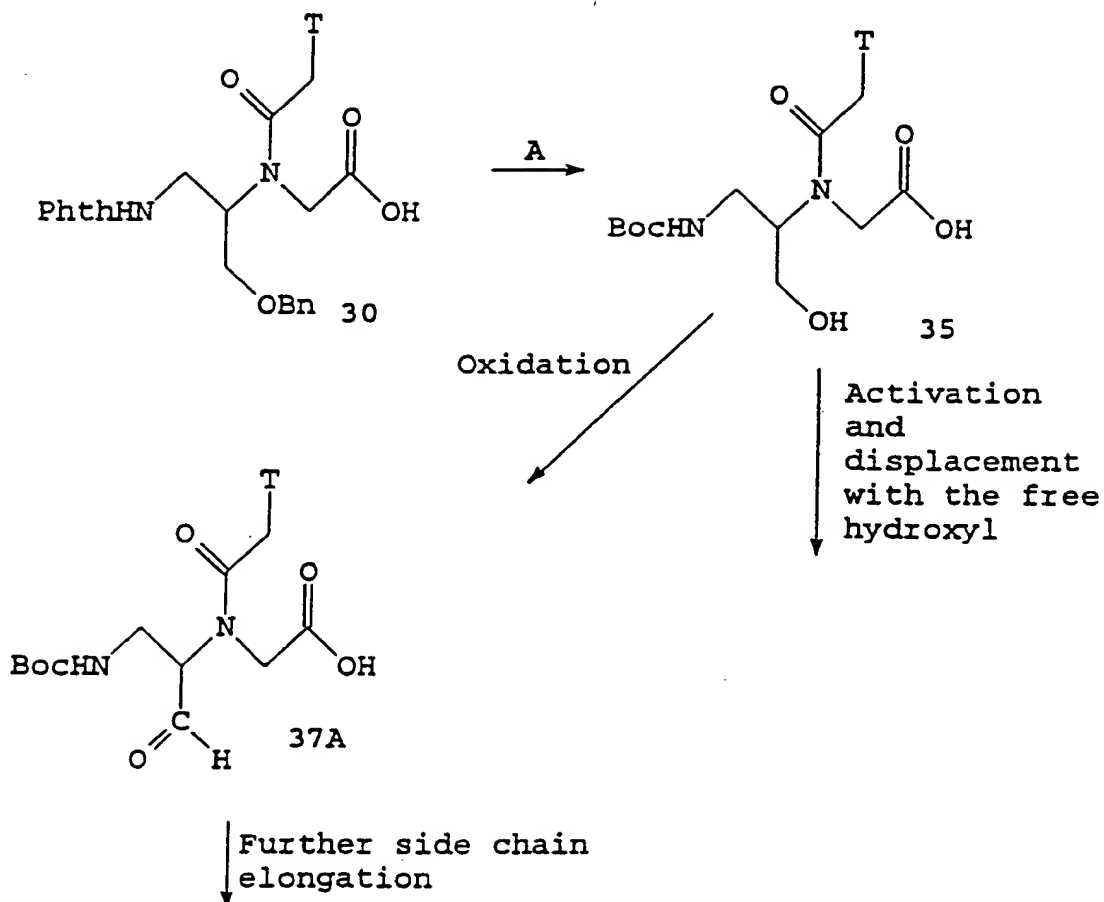
A. H<sub>2</sub>NNH<sub>2</sub>, Boc<sub>2</sub>O/NaOH, LiBH<sub>4</sub>/MeOH

Figure 3

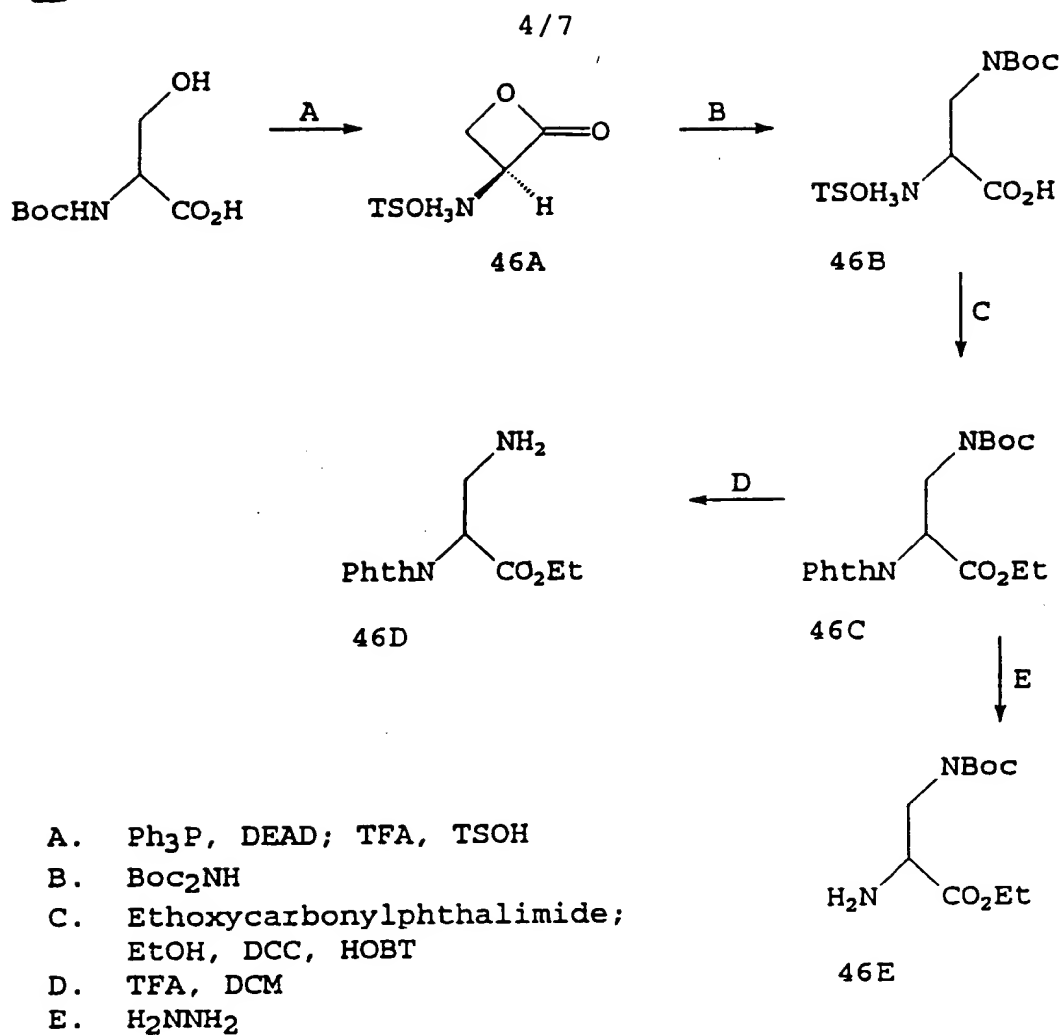
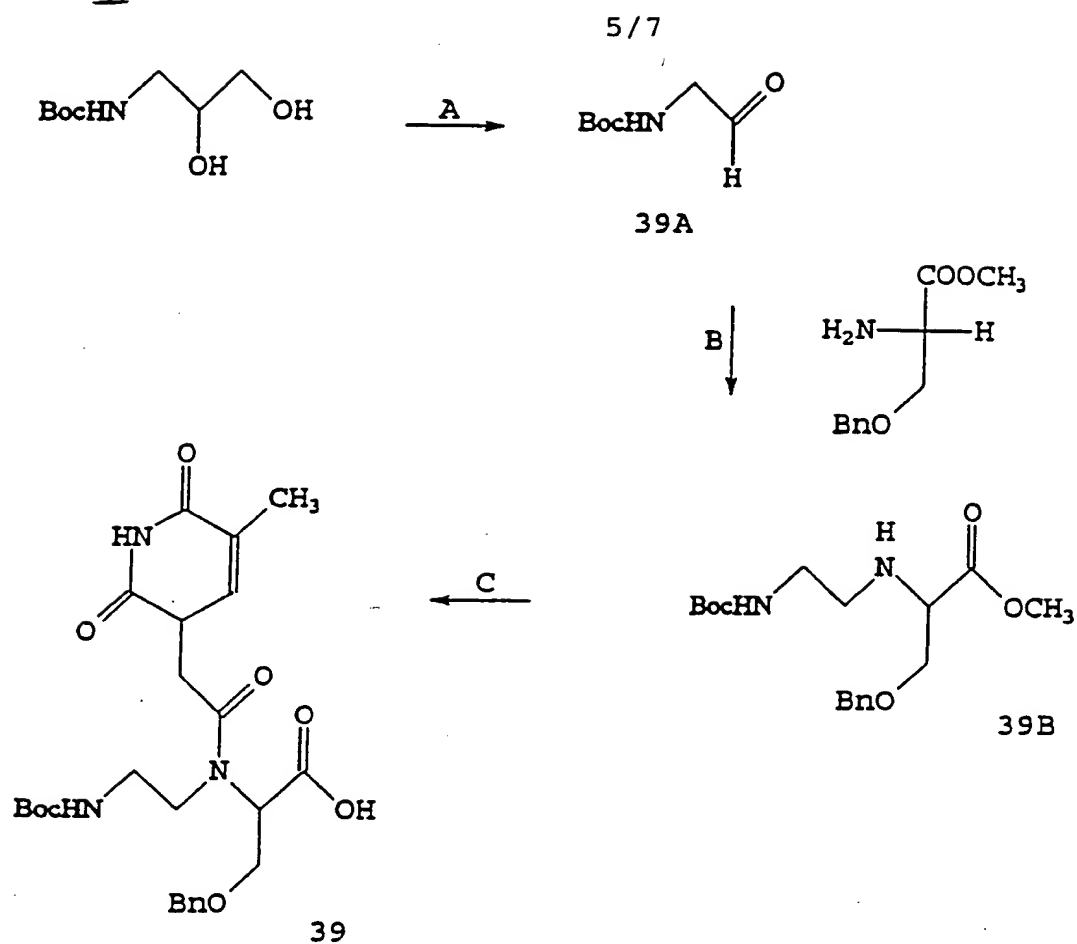


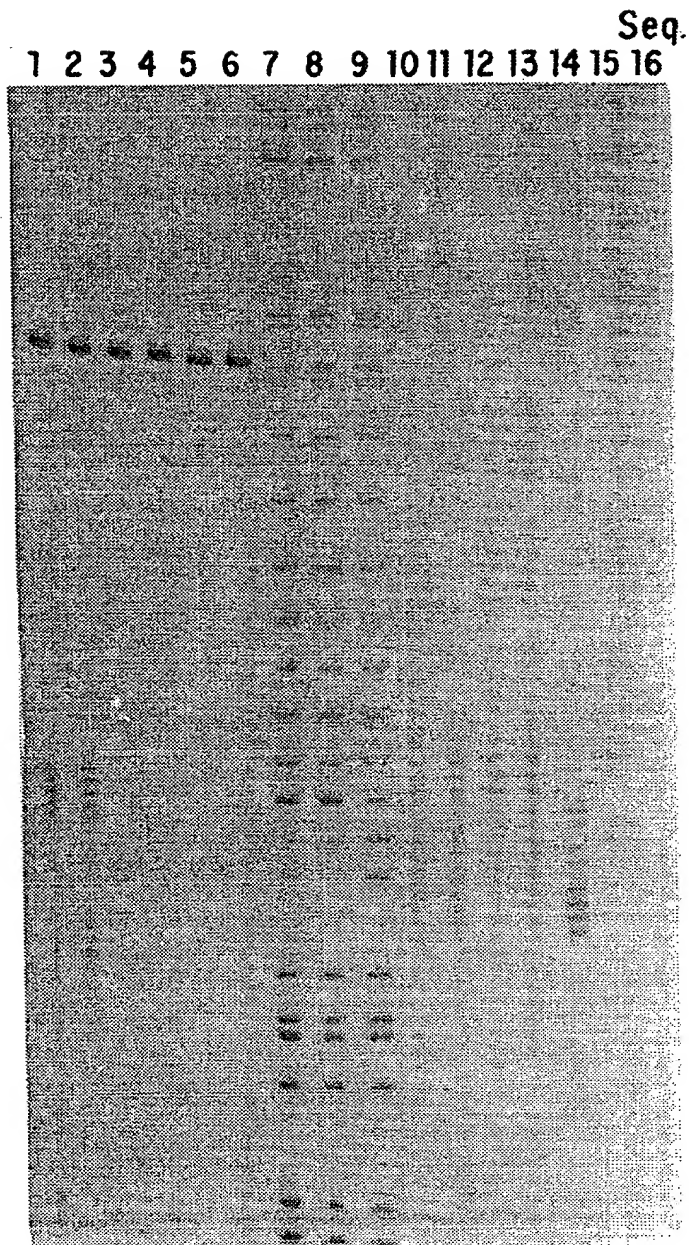
Figure 4



- A. Potassium m-periodate  
B. Glacial acetic acid, Sodium triacetoxyborohydride  
C. N-1-Carboxymethylthymine (Compound 3), 1N NaOH

Figure 5

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PNA  
Binding Site

FIG. 6

08817067 040497

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
PNA	+	+	+	+	+	+	+	+	-	+	+	+	+	+	-	S
+EDTA-DTT			⊗	—		⊗	—									

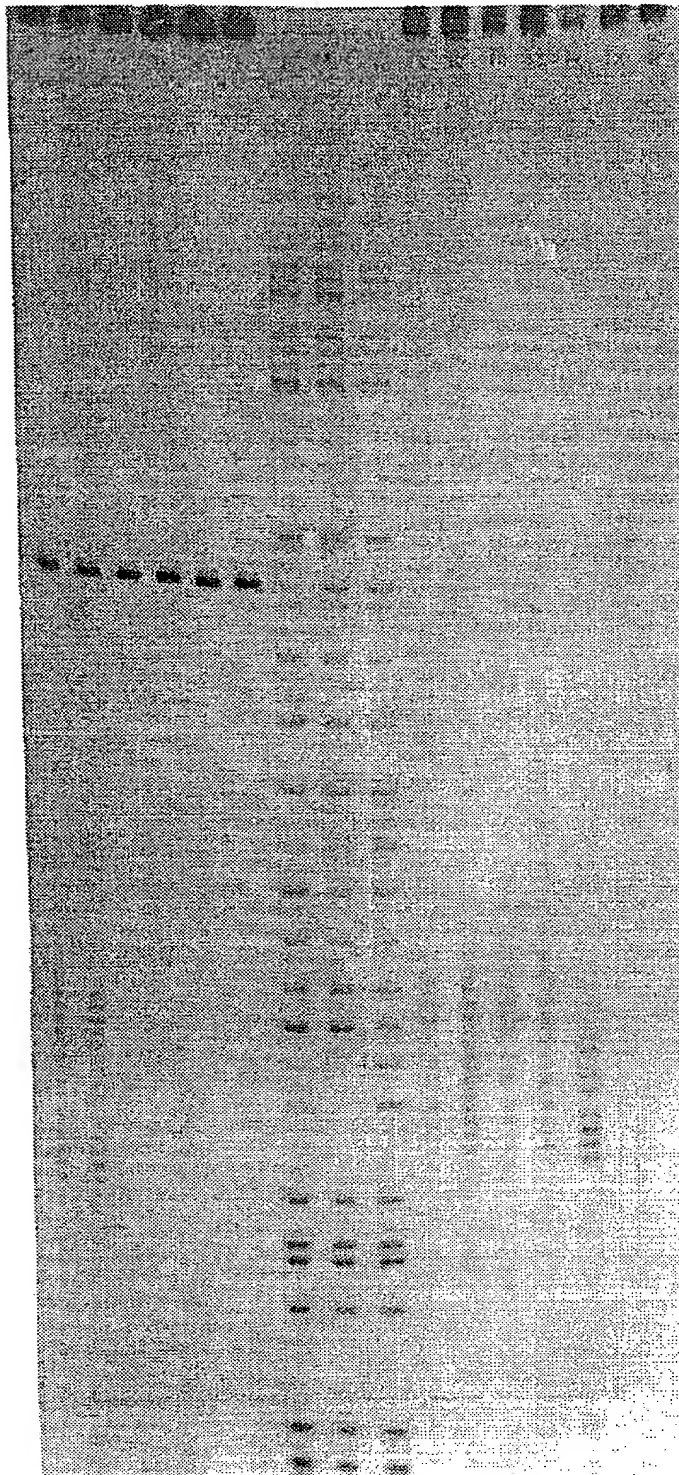
DMS/KMnO<sub>4</sub>PNA  
Target

FIG. 7